Unix

Grammatical Dictionary

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[awk] (manipulate file as database), (–) (end of option list), (-f) (awk program) [file], (-F*separator*) (field separator), (-v) (set variable) [*variable*=*value*]. ⟨awk -f *scipt file*⟩ (run script on file), ⟨awk -F, '{ print $*i* }' *file* > *new*⟩ (separate ith field's separated by a comma), ⟨awk -F: '{ print $*i* "*string1*" $*j* "string2" $*k*}' *file*⟩ (output fields and some texts), ⟨awk /*string*/'{ print $*i* $*j* $*k* }' *file*⟩ (print fields i, j and k of lines containing the string)

[file] (find file type), (-b) (brief output), (-c) (check magic file), (-f) (file to examine) [file], (-L) (-follow) (follow symbolic links), (-m) (alternative list of files with magic numbers) [list], (-z) (look into compressed file)

[find] (find file), (-amin) (file accessed minutes ago) [minute], (-anewer) (more recent than a file modified) [file], (-atime) (file accessed days ago) [day], (-cmin) (file whose status changed minutes ago) [minute], (-cnewer) (file whose status changed more recent than file modified) [file], (-ctime) (file whose status changed days ago) [day], (-daystart) (measure time starting today), (-depth) (process contents before the directory), (-maxdepth) (maximum directory level) [level], (-mindepth) (minimum directory level) [level], (-mount) (-xdev) (no descending directories on other file systems), (-name) (pattern of file name) [pattern], (-noleaf) (no optimisation), (-path) (path pattern) [pattern], (-regex) (regular expression pattern in name) [pattern], (-size) (file size) [size] [cwbkMG], (-type) (file type) [*b*, blocked special, buffered; *c*, character special, unbuffered; *d* , directory; *f*, regular file; *l*, symbolic link; *p*, named pipe, FIFO; *s*, socket]. ⟨find ~ -name '*pattern*' -ok *command* {} \;⟩ ⟨find ~ -name '*pattern*' -exec *command* {} \;⟩ (run a command after files found), ⟨find *path* -name '*pattern*' -print⟩

[locate] (find system files) [pattern in name or path], (-c) (tell process /etc/updatedb.conf when updating the database) (-d) (search path) [path] (–database=*path*), (-e) (exclude directory) [directory,...], (-f) (exclude file types) [file type], (-i) (case-sensitive), (-l) (security level) [0, no checking; 1, checking], (-n) (limit amount of result) [number], (-o) (name database to create) [name], (-q) (quiet) (no error messages), (-r) (search a pattern) [regular expression] (–regexp=*regexp*), (-u) (create locate database starting at root directory), (-U) (create locate database starting at a path) [path], (-v) (verbose)

[sed] (batch process file), (-e) (edit command) [command], (-f) (command from file) [file], (-n) (no default output). ⟨sed -f *script file* > *new*; mv *new file*⟩ (script edit file), ⟨sed '/*old*/*new*/g' *file*⟩ (replace)

[touch] (-a) (–time=access) (–time=atime) (–time=use) (change only access time), (-c) (–no-create) (no file creation), (-d) (–date) (update with time) [time], (-m) (–time=modify) (–time=mtime) (change only modification time), (-r) (–reference) (use time of a reference file) [file], (-t) (set to time) [ccyymmddhhmm.ss]

[tr] (translate characters). ⟨tr A-Za-z a-zA-Z < *file*⟩ (change cases upper to lower and lower to upper)

[vi] (a text editor), (-l) (LISP program editing setup), (-L) (list files saved after crash), (-r) (recover after crash) [file], (-R) (read-only), (-s) (no interactive feedback), (-t) (put cursor at tag position) [tag], (-V) (verbose output) (input to standard error), (-w*n*) (window size), (-x) (encryption)

[wc] (count of byte, word and line), (-c) (–bytes) (byte count), (-l) (–lines) (line count), (-m) (–chars) (characters), (-w) (–words) (word count)

[zip] (-A) (self-extracting executable archive), (-b) (path for temporary files) [path], (-c) (file comment), (-d) (delete), (-D) (no directories), (-e) (encrypt), (-f) (update if more recent), (-F) (fix), (-g) (append), (-h) (help), (-i) (include) [filed], (-j) (junk the path), (-J) (junk prepended data), (-l) (Unix text into MS-DOS's), (-ll) (MS-DOS text into Unix's), (-L) (zip licence), (-m) (move), (-n) (no), [suffix], (-o) (modification time to the oldest file), (-q) (quiet), (-r) (recursive), (-t) (time from) [mmddyyy], (-T) (test) (revert to old archive on error), (-u) (update), (-v) (verbose), (-x) (exclude) [file], (-z) (archive comment), (-@) (file list from standard input)

Bibliography

Deborah S. Ray and Eric J. Ray, *UNIX and LINUX*, 4th ed., 2009
Mark G. Sobell, *A practical guide to Linux commands, editors and shell programming*, 2005

This book was begun on 18 December 2012. Topics intended to be included here were Linux, vi, emacs, line commands, shells, gawk, sed, roff, and so on. Common options for commands are (–help) and (–version).

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